

IN THE UNITED STATES PATENT OFFICE

In Re Patent Application of

First Named Inventor: Garrett, Jr., Billy

Application No.: 09/837,307

Filed: 4/17/2001

For: MECHANISM FOR ENABLING FULL DATA
BUS UTILIZATION WITHOUT INCREASING
DATA GRANULARITY

Examiner: Dinh, Ngoc V.

Art Unit: 2187

Confirmation 9703
No.:

Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT UNDER 37 C.F.R. 1.97

Sir:

Enclosed is an Information Disclosure Citation Form 1449/PTO together with a copy of each reference cited therein, excluding U.S. Patents and Published U.S. Patent Applications. It is respectfully requested that the cited references be considered and that the enclosed copy of the Form 1449/PTO be initialed by the Examiner to indicate such consideration and a copy thereof returned to applicant.

This Information Disclosure Statement is being submitted under one of the following (as indicated by an "X" to the left of the appropriate paragraph):

 37 C.F.R. §1.97(b).

 X 37 C.F.R. §1.97(c).

 X Authorization is hereby given to charge Deposit Account No. 501914 for the fee of \$180.00 under 37 C.F.R. §1.17(p) for the submission of this Information Disclosure Statement; **or**

 A statement pursuant to 37 C.F.R. §1.97(e) is attached hereto.

_____ 37 C.F.R. §1.97(d). Authorization is hereby given to charge Deposit Account No. 501914 for the fee of \$180.00 and a statement pursuant to 37 C.F.R. §1.97(e) is enclosed.

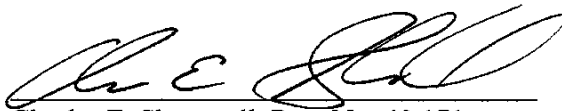
Pursuant to 37 C.F.R. 1.97(h), the submission of this Information Disclosure Statement is not to be construed as an admission that the information cited in this statement is material to patentability.

The Commissioner is hereby authorized to charge any fee deficiency in connection with this submission to Deposit Account No. 501914.

Respectfully submitted,

SHEMWELL MAHAMEDI LLP

Date January 25, 2007

A handwritten signature in black ink, appearing to read 'Charles E. Shemwell', is written over a horizontal line.

Charles E. Shemwell, Reg. No. 40,171
Tel. 408-236-6640

Substitute for Form 1449/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT Page 1 of 5	Application No.	09/837,307
	Filed	4/17/2001
	First Inventor	Garrett, Jr., Billy
	Art Unit	2187
	Examiner	Dinh, Ngoc V.
	Atty. Docket No.	RBS2.P031

U.S. Patent Documents					
Examiner Initials*	US Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication	Relevant Pages, Columns, Lines
	Number	Kind			
	2004/0120197		Kondo et al.	6/24/2004	
	4,377,855		Lavi	3/22/1983	
	4,542,483		Procyk	9/17/1985	
	4,569,036		Fuji et al.	2/4/1986	
	4,646,268		Kuno	2/24/1987	
	4,698,788		Flannagan et al.	10/6/1987	
	4,700,328		Burghard	10/13/0987	
	4,710,902		Pelley III et al.	12/1/1987	
	4,740,921		Lewandowski et al.	4/26/1988	
	4,758,993		Takamae	7/19/1988	
	4,787,858		Killian Jr.	11/29/1988	
	4,796,230		Young	1/3/1989	
	4,800,525		Shah et al.	1/24/1989	
	4,811,302		Koishi	3/7/1989	
	4,825,413		Tran	4/25/1989	
	4,837,743		Chiu et al.	6/6/1989	
	4,843,264		Galbraith	6/27/1989	
	4,862,421		Tran	8/29/1989	
	4,888,732		Inoue et al.	12/19/1989	
	4,903,344		Inoue et al.	2/20/1990	
	4,961,168		Tran	10/2/1990	
	4,982,370		Matsumoto et al.	1/1/1991	
	4,984,196		Tran et al.	1/8/1991	
	4,991,141		Tran	2/5/1991	

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	Number	Kind			
	5,046,050		Kertis	9/3/1991	
	5,093,806		Tran	3/3/1992	
	5,111,434		Cho	5/5/1992	
	5,119,340		Slemmer	6/2/1992	
	5,121,358		Slemmer et al.	6/9/1992	
	5,124,610		Conley et al.	6/23/1992	
	5,124,951		Slemmer	6/23/1992	
	5,128,897		McClure	7/7/1992	
	5,132,931		Koker	7/21/1992	
	5,150,330		Hag	9/22/1992	
	5,181,205		Kertis	1/19/1993	
	5,193,072		Frenkil et al.	3/9/1993	
	5,193,074		Anami	3/9/1993	
	5,214,610		Houston	5/25/1993	
	5,241,503		Cheng	8/31/1993	
	5,249,165		Toda	9/28/1993	
	5,251,178		Childers	10/5/1993	
	5,263,002		Suzuki et al.	11/16/1993	
	5,267,215		Tsujimoto	11/30/1993	
	5,274,596		Watanabe	12/28/1993	
	5,291,444		Scott et al.	3/1/1994	
	5,301,162		Shimizu	4/5/1994	
	5,305,280		Hayano	4/19/1994	
	5,321,646		Tomishima	6/14/1994	

Examiner Signature		Date Considered	
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	Number	Kind			
	5,337,283		Ishikawa	8/9/1994	
	5,343,438		Choi et al.	8/30/1994	
	5,383,159		Kubota	1/17/1995	
	5,390,308		Ware et al.	2/14/1995	
	5,406,526		Sugibayashi et al.	4/11/1995	
	5,414,662		Foss et al.	5/9/1995	
	5,418,737		Tran	5/23/1995	
	5,428,389		Ito et al.	6/27/1995	
	5,455,802		McClure	10/3/1995	
	5,471,425		Yumitori et al.	11/28/1995	
	5,485,430		McClure	1/16/1996	
	5,517,456		Chrishiki	5/14/1996	
	5,587,960		Ferris	12/24/1996	
	5,903,509		Ryan et al.	5/1/1999	
	6,034,878		Osaka et al.	3/7/2000	
	6,075,728		Inoue et al	6/13/2000	

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Non Patent Literature Documents		
Examiner Initials	Name of Author, Title of Item, Date, Page(s), Volume-Issue Number(s), Publisher, City and/or Country where Published	Trans- lation
	AIMOTO et al., "SP23.3: a 7168GIPS 3.84GB/s 1W Parallel Image-Processing RAM Integrating a 16Mb DRAM and 128 Processors," ISSCC, Feb. 1996, pp. 372-373/476.	
	F. Ware, "Direct RDRAM 256/288-Mbit (512Kx16/18x32s)" Rambus, Preliminary Information, Document DL0060 Version0.9, August 1999, pp. 1-66.	
	GIACALONE et al., "SP23.2: A 1MB 100MHz Integrated L2 Cache Memory with 128b Interface and ECC Protection," ISSCC, Feb. 1996, pp. 370-371/475.	
	HIROSE, et al., "A 20-ns 4-Mb CMOS SRAM with Hierarchical Word Decoding Architecture," IEEE, Oct. 1990, pp 1068-1072. Vol. 25, No. 5.	
	JEDEC, "Minutes of Meeting No. 71, JC-42.3 Committee on RAM Memories, including Proposal to Add Number of Banks Option to the Mode Register for 64M SDRAM," Joint Electron Device Engineering Council (JEDEC), 5/25/1994, New York, NY, pp. 1-14 plus 2-pg. Attachment T	
	KIOKE et al., "SP23.1: A 60-ns 1Mb Nonvolatile Ferroelectric Memory with Non-Driven Cell Plate Line Write/Read Scheme," ISSCC, Feb. 1996, pp. 368-379/475.	
	KONISHI et al., "Session SVIII: Static RAMs - FAM18.6: A 64Kb CMOS RAM," ISSCC, Feb. 1982, pp. 258-259/333.	
	Micron Graphics DDR3 DRAM. Advance 256Mb: x 32 GDRA3 DRAM. © 2003 Micron Technology, Inc., pages 1-67.	
	NAKAMURA et al., "FA14.2: A 29ns 64Mb DRAM with Hierarchical Array Architecture," ISSCC, Feb. 1995, pp. 246-247/373.	

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	NITTA et al., "SP23.5: A 1.6FB/s Data-Rate 1Gb Synchronous DRAM w/Hierarchical Square-Shaped Memory Block & Distributed Bank Architecture," ISSCC, Feb. 1996, pp 376-377/477.	
	SAEKI et al., "SP23.4: A 2.5ns Clock Access 250MHz 256Mb SDRAM with a Synchronous Mirror Delay," ISSCC, Feb. 1996, pp. 374-375/476.	
	SAKATA et al., "Two-Dimensional Power-Line Selection Scheme for Low Subthreshold-Current Multi-Gigabit DRAM's," IEEE, Aug. 1994, pp. 887-894, Vol. 29, No. 8.	
	SUGIBAYASHI et al., "WP3.5: A 30ns 256Mb DRAM with Multi-Divided Array Structure," ISSCC, Feb. 1993, pp. 50-51/262.	
	SUGIBAYASHI et al., "A 30-ns 256Mb DRAM with a Multidivided Array Structure," IEEE, Nov. 1993, pp. 1092-1098, Vol. 28 No. 11.	
	YAMASHITA et al., "FA15.2: A 3.84GIPS Integrated Memory Array Processor LSI with 64 Processing Elements and 3Mb SRAM," ISSCC, Feb. 1994, pp. 260-261/349.	
	YOO et al., "17.7: A 1.8V 700Mb/s/pin 512Mb DDR-II SCRAM with On-Die Termination and Off-Chip Driver Calibration," ISSCC, Feb. 2003, pp. 312-313/495/250-251.	
	YOO et al., "FA14.4: A 150MHz 8-Banks 256M Synchronous DRAM with Wave Pipelinin Methods," ISSCC, Feb. 1995, pp. 250-251/374.	
	YOO et al., "SP23.6: A 32-Bank 1Gb DRAM with 1GB/s Bandwidth," ISSCC, Feb. 1996. pp. 378-379/477.	

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